

N. Johnson

#6

PAGE: 1

**RAW SEQUENCE LISTING  
PATENT APPLICATION US/09/267,439**

DATE: 11/04/1999  
TIME: 13:50:26

**INPUT SET: S33847.raw**

**This Raw Listing contains the General  
Information Section and up to the first 5 pages.**

SEQUENCE LISTING

1                   3 (1)    General Information:

2                   5 (i)     APPLICANT: KAWAKAMI, YUTAKA; ROSENBERG,  
3                   6 STEVEN A.

4                   8 (ii)    TITLE OF INVENTION: MELANOMA ANTIGENS AND  
5                   9 THEIR USE IN DIAGNOSTIC AND THERAPEUTIC  
6                   10 METHODS

7                   12 (iii)   NUMBER OF SEQUENCES: 126

8                   14 (iv)    CORRESPONDENCE ADDRESS:  
9                   15 (A)    ADDRESSEE: MORGAN & FINNEGAN, L.L.P.  
10                  16 (B)    STREET: 345 PARK AVENUE  
11                  17 (C)    CITY: NEW YORK  
12                  18 (D)    STATE: NEW YORK  
13                  19 (E)    COUNTRY: USA  
14                  20 (F)    ZIP: 10154

15                  22 (v)    COMPUTER READABLE FORM:

16                  23 (A)    MEDIUM TYPE: FLOPPY DISK  
17                  24 (B)    COMPUTER: IBM PC COMPATIBLE  
18                  25 (C)    OPERATING SYSTEM: PC-DOS/MS-DOS  
19                  26 (D)    SOFTWARE: ASCII

20                  28 (vi)   CURRENT APPLICATION DATA:

21                  29 (A)    APPLICATION NUMBER: 09/267,439  
22                  30 (B)    FILING DATE:

23                  32 (vii)   PRIOR APPLICATION DATA:

24                  33 (A)    APPLICATION NUMBER: US/08/417,174  
25                  34 (B)    FILING DATE: 05-APR-1995

36                  36 (A)    APPLICATION NUMBER: US/08/231,565  
37                  37 (B)    FILING DATE: 22-APR-1994

38                  39 (viii)   ATTORNEY/AGENT INFORMATION:

40                  41 (A)    NAME: CAROL M. GRUPPI  
41                  42 (B)    REGISTRATION NUMBER: 37,341  
42                  43 (C)    REFERENCE/DOCKET NUMBER: 2026-4124US1

43                  44 (ix)    TELECOMMUNICATION INFORMATION:

44                  45 (A)    TELEPHONE: (212) 758-4800  
46                  46 (B)    TELEFAX: (212) 751-6849

ENTERED

**RAW SEQUENCE LISTING  
PATENT APPLICATION US/09/267,439**DATE: 11/04/1999  
TIME: 13:50:26**INPUT SET: S33847.raw**

47 (C) TELEX: 421792

48  
49 (2) INFORMATION FOR SEQ ID NO: 1:

50

51 (i) SEQUENCE CHARACTERISTICS:

52 (A) LENGTH: 1559

53 (B) TYPE: NUCLEOTIDE

54 (C) STRANDEDNESS: DOUBLE

55 (D) TOPOLOGY: UNKNOWN

56

57

58

59

60

61

62 (ii) MOLECULE TYPE: cDNA

63

64 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1:

66 AGCAGACAGA GGACTCTCAT TAAGGAAGGT GTCCTGTGCC	40
67 CTGACCCTAC AAGATGCCAA GAGAAGATGC TCACCTTCATC	80
68 TATGGTTACC CCAAGAAGGG GCACGGCCAC TCTTACACCA	120
69 CGGCTGAAGA GGCGCTGGG ATCGGCATCC TGACAGTGAT	160
70 CCTGGGAGTC TTACTGCTCA TCGGCTGTTG GTATTGTAGA	200
71 AGACGAAATG GATACAGAGC CTTGATGGAT AAAAGTCTTC	240
72 ATGTTGGCAC TCAATGTGCC TTAACAAGAA GATGCCACAA	280
73 AGAAGGGTTT GATCATCGGG ACAGCAAAGT GTCTCTTCAA	320
74 GAGAAAAACT GTGAACCTGT GGTTCCAAT GCTCCACCTG	360
75 CTTATGAGAA ACTCTCTGCA GAACAGTCAC CACCACCTTA	400
76 TTCACCTTAA GAGCCAGCGA GACACCTGAG ACATGCTGAA	440
77 ATTATTCTC TCACACTTTT GCTTGAATTT AATACAGACA	480
78 TCTAATGTTGTC TCCTTTGGAA TGGTAGGA AAAATGCAAG	520
79 CCATCTCTAA TAATAAGTCA GTGTTAAAAT TTTAGTAGGT	560
80 CCGCTAGCAG TACTAACAT GTGAGGAAAT GATGAGAAAT	600
81 ATTAAATTGG GAAAACCTCCA TCAATAATG TTGCAATGCA	640
82 TGATACTATC TGTGCCAGAG GTAATGTTAG TAAATCCATG	680

99

**RAW SEQUENCE LISTING  
PATENT APPLICATION US/09/267,439**

DATE: 11/04/1999  
TIME: 13:50:27

**INPUT SET: S33847.raw**

100	GTGTTATTT CTGAGAGACA GAATTCAAGT GGGTATTCTG	720
101		
102	GGGCCATCCA ATTTCTCTT AC TTGAAATT TGGCTAATAA	760
103		
104	CAAAC TAGTC AGGTTTCCGA ACCTTGACCG ACATGAAC TG	800
105		
106	TACACAGAAT TGTTCCAGTA CTATGGAGTG CTCACAAAGG	840
107		
108	ATACTTTAC AGGTAAAGAC AAAGGGTTGA CTGGCCTATT	880
109		
110	TATCTGATCA AGAACATGTC AGCAATGTCT CTTTGTGCTC	920
111		
112	TAAAATTCTA TTACTACA ATAATATATT GTAAAGATCC	960
113		
114	TATAGCTCTT TTTTTTGAG ATGGAGTTTC GCTTTGTTG	1000
115		
116		
117		
118		
119		
120		
121	CCCAGGCTGG AGTGCAATGG CGCGATCTTG GCTCACCA TA	1040
122		
123	ACCTCCGCCT CCCAGGTTCA AGCAATTCTC CTGCCTTAGC	1080
124		
125	CTCCTGAGTA GCTGGGATTA CAGGCGTGCG CCACTATGCC	1120
126		
127	TGACTAATTT TGTAGTTTA GTAGAGACGG GGTTTCTCCA	1160
128		
129	TGTTGGTCAG GCTGGTCTCA AACTCCTGAC CTCAGGTGAT	1200
130		
131	CTGCCCGCCT CAGCCTCCCCA AAGTGCTGGA ATTACAGGCG	1240
132		
133	TGAGCCACCA CGCCTGGCTG GATCCTATAT CTTAGGTAAG	1280
134		
135	ACATATAACG CAGTCTAATT ACATTCACT TCAAGGCTCA	1320
136		
137	ATGCTATTCT AACTAATGAC AAGTATTTTC TACTAACCA	1360
138		
139	GAAATTGGTA GAAGGATTAA AATAAGTAAA AGCTACTATG	1400
140		
141	TACTGCCTTA GTGCTGATGC CTGTGTACTG CCTTAAATGT	1440
142		
143	ACCTATGGCA ATTTAGCTCT CTTGGGTTCC CAAATCCCTC	1480
144		
145	TCACAAGAAT GTGCAGAAGA AATCATAAAG GATCAGAGAT	1520
146		
147	TCTGAAAAAA AAAAAAAAAA AAAAAAAAAA AAAAAAAAAA	1559
148		
149		
150	(2) INFORMATION FOR SEQ ID NO: 2:	
151		
152	(i) SEQUENCE CHARACTERISTICS:	

**RAW SEQUENCE LISTING  
PATENT APPLICATION US/09/267,439**DATE: 11/04/1999  
TIME: 13:50:27**INPUT SET: S33847.raw**

153                     (A) LENGTH: 118  
154                     (B) TYPE: amino acid  
155                     (C) STRANDEDNESS: Unknown  
156                     (D) TOPOLOGY: Unknown  
157  
158                 (ii) MOLECULE TYPE: Protein  
159  
160                 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2:  
161  
162     Met Pro Arg Glu Asp Ala His Phe Ile Tyr Gly Tyr Pro Lys  
163                     1                                     5                             10  
164     Lys Gly His Gly His Ser Tyr Thr Thr Ala Glu Glu Ala Ala  
165                     15                                     20                             25  
166     Gly Ile Gly Ile Leu Thr Val Ile Leu Gly Val Leu Leu Leu  
167                     30                                     35                             40  
168     Ile Gly Cys Trp Tyr Cys Arg Arg Arg Asn Gly Tyr Arg Ala  
169                     45                                     50                             55  
170     Leu Met Asp Lys Ser Leu His Val Gly Thr Gln Cys Ala Leu  
171                     60                                     65                             70  
172     Thr Arg Arg Cys Pro Gln Glu Gly Phe Asp His Arg Asp Ser  
173                     75                                     80  
174  
175  
176  
177  
178  
179  
180     Lys Val Ser Leu Gln Glu Lys Asn Cys Glu Pro Val Val Pro  
181                     85                                     90                             95  
182     Asn Ala Pro Pro Ala Tyr Glu Lys Leu Ser Ala Glu Gln Ser  
183                     100                                     105                             110  
184     Pro Pro Pro Tyr Ser Pro  
185                     115  
186  
187  
188     (2) INFORMATION FOR SEQ ID NO: 3:  
189  
190         (i) SEQUENCE CHARACTERISTICS:  
191                     (A) LENGTH: 9  
192                     (B) TYPE: amino acid  
193                     (C) STRANDEDNESS: Unknown  
194                     (D) TOPOLOGY: Unknown  
195  
196         (ii) MOLECULE TYPE: Peptide  
197  
198         (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3:  
199  
200  
201     Thr Thr Ala Glu Glu Ala Ala Gly Ile  
202                     1                                     5  
203  
204  
205     (2) INFORMATION FOR SEQ ID NO: 4:

**RAW SEQUENCE LISTING  
PATENT APPLICATION US/09/267,439**DATE: 11/04/1999  
TIME: 13:50:27**INPUT SET: S33847.raw**

206  
207       (i) SEQUENCE CHARACTERISTICS:  
208           (A) LENGTH: 9  
209           (B) TYPE: amino acid  
210           (C) STRANDEDNESS: Unknown  
211           (D) TOPOLOGY: Unknown  
212  
213       (ii) MOLECULE TYPE: Peptide  
214  
215       (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4:  
216  
217  
218 Ala Ala Gly Ile Gly Ile Leu Thr Val  
219       1               5  
220  
221  
222       (2) INFORMATION FOR SEQ ID NO: 5:  
223  
224       (i) SEQUENCE CHARACTERISTICS:  
225           (A) LENGTH: 9  
226           (B) TYPE: amino acid  
227           (C) STRANDEDNESS: Unknown  
228           (D) TOPOLOGY: Unknown  
229  
230       (ii) MOLECULE TYPE: Peptide  
231  
232       (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5:  
233  
234  
235  
236  
237  
238  
239 Gly Ile Gly Ile Leu Thr Val Ile Leu  
240       1               5  
241  
242  
243       (2) INFORMATION FOR SEQ ID NO: 6:  
244  
245       (i) SEQUENCE CHARACTERISTICS:  
246           (A) LENGTH: 9  
247           (B) TYPE: amino acid  
248           (C) STRANDEDNESS: Unknown  
249           (D) TOPOLOGY: Unknown  
250  
25

PAGE: 1

**SEQUENCE VERIFICATION REPORT**  
**PATENT APPLICATION US/09/267,439**

DATE: 11/04/1999  
TIME: 13:50:28

***INPUT SET: S33847.raw***

Line	Error	Original Text
------	-------	---------------